



SF-Black Widow ENGINE DYNAMOMETER

The SF-Black Widow is unmatched in its combination of low speed torque capacity and high-speed power capacity. This means the SF-Black Widow is equally comfortable for diesel performance and pro-mod drag applications. The stainless-steel absorber will last for years due to its high resistance to cavitation. Automated tests make operation simple and repeatable with prompts that guide you from start to finish.

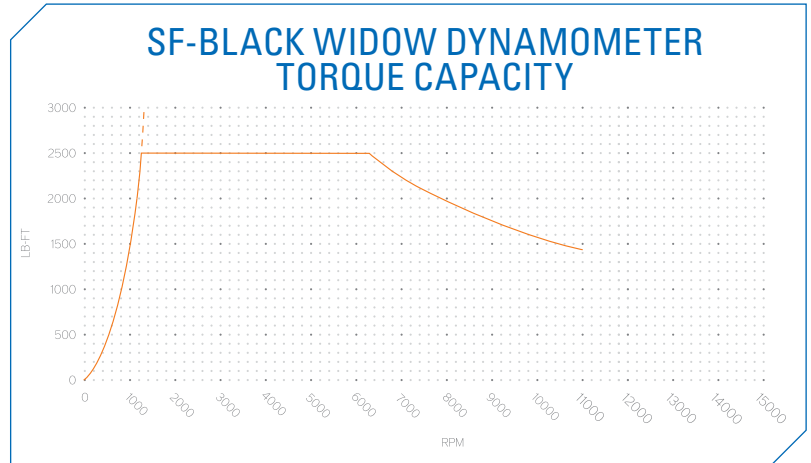
The included WinDyn data acquisition system measures engine characteristics in real time, displays them live on your run screen and automatically graphs data at the end of each test so you can quickly evaluate engine performance.

The docking cart, cooling column and boom system make a complete, ready to run system that anyone can operate.



FEATURES

- Complete engine testing system includes dynamometer stand, docking cart, operator station & console, sensor box, engine cooling column, computer, WinDyn software, monitors and printer
- Automated tests for simple operation and unequaled repeatability
- Test a wide range of engine sizes including diesel, gasoline & methanol engines – 3,000 plus hp capacity
- Dual servo valve control system – precise control for any application
- Docking cart system for rapid engine changes – multiple cart sizes available for both diesel and gas engines
- Control console to manage test, engine and test cell equipment all from the operator station
- Boom system to mount sensor box, manage sensor cables and hold the cooling column neatly in the test cell
- 139 data acquisition channels – user configurable to meet any application
- Modular sensor box with expansion panel system that allows for installation of additional sensors over the life of the dyno



Product Specifications

ABSORBER TYPE	WATER BRAKE POWER ABSORBER WITH STAINLESS STEEL CONSTRUCTION AND CUP POCKET DESIGN – UNMATCHED COMBINATION OF LOW-SPEED TORQUE AND HIGH-SPEED POWER CAPACITIES
MAXIMUM SPEED	11,000 RPM
HORSEPOWER CAPACITY	3,000 + HP *
TORQUE CAPACITY	2,500 + LB-FT *
TEMPERATURE MEASUREMENT	12 TEMPERATURE SENSORS FOR EXHAUST, OIL, WATER, ETC. (ADDITIONAL SENSORS AVAILABLE)
PRESSURE MEASUREMENT	3 PRESSURE SENSORS FOR OIL, MANIFOLD/BOOST, FUEL, ETC. (ADDITIONAL SENSORS AVAILABLE)
FUEL FLOW MEASUREMENT	2 FUEL FLOW SENSORS RATED FOR 8-80 GAL/HR (OTHER RANGES AVAILABLE)
AIR FLOW MEASUREMENT	1 AIR FLOW SENSOR (20-1,200 CFM) (OTHER SIZES AVAILABLE)
AIR / FUEL (LAMBDA) MEASUREMENT	2 – 12 CHANNEL SYSTEMS AVAILABLE – CALL FOR DETAILS
	*CONSULT SUPERFLOW FOR MORE INFORMATION ON POWER AND TORQUE CAPACITIES